

In re Patent Application of:
CLARKE ET AL.
Serial No. 10/785,657
Filing Date: Feb. 24, 2004

In the Claims:

1. (CURRENTLY AMENDED) An interface device for a communications system comprising:

a front-end proxy module operative as an agent for communicating with a plurality of ~~mobile~~ wireless mobile communications devices using different operating protocols;
and

a knowledge database operatively connected to said front-end proxy module and storing data relating to functional features of different wireless mobile communication devices, wherein said front-end proxy module is operative for querying the knowledge database to determine functional features of wireless mobile communications devices;

a device information module operative with the front-end proxy module; ~~for determining functional features of a wireless mobile communications device and~~

a configuration file database for storing configuration files used for configuring the front-end proxy module based on functional features of the wireless mobile communications device, wherein said configuration file database is operatively connected to said device information module for allowing said device information module to query said configuration file database and selecting a configuration file for configuring the front-end proxy module to interface with the wireless mobile communications device and enable communications of any desired alerts that are notifications indicative of an event.

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2. (PREVIOUSLY PRESENTED) An interface device according to Claim 1, wherein said device information module is operative for determining functional features of the wireless mobile communications device by intermediate proxies and header information.

3. (PREVIOUSLY PRESENTED) An interface device according to Claim 1, wherein said device information module is operative for determining which functional features are enabled for different wireless mobile communications devices.

4. (CANCELLED)

5. (PREVIOUSLY PRESENTED) An interface device according to Claim 1, wherein said device information module is operative for determining the brand of the wireless mobile communications device.

6. (CANCELLED)

7. (CURRENTLY AMENDED) An interface device according to ~~Claim 6~~ Claim 1, wherein said database includes data relating to the device type and brand of different wireless mobile communications devices.

8. (CURRENTLY AMENDED) An interface device according to ~~Claim 6~~ Claim 1, wherein said database includes data relating to unknown devices used for selecting a default configuration.

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9. (PREVIOUSLY PRESENTED) An interface device according to Claim 1, wherein said device information module is operative for selecting a default configuration for unknown devices.

10. (PREVIOUSLY PRESENTED) An interface device according to Claim 1, wherein said data storage devices comprise servers that store email messages.

11. (CURRENTLY AMENDED) A communications system comprising:

a plurality of data storage devices each using at least one of a plurality of operating protocols;

a wireless mobile communications device for accessing at least one of said plurality of data storage devices; and
an interface device comprising

a protocol engine module for communicating with said plurality of data storage devices using respective operating protocols,

a front-end proxy module coupled to said protocol engine module and operative as an agent for communicating with said plurality of mobile wireless devices using at least one different operating protocol, and

a knowledge database operatively connected to said front-end proxy module and storing data relating to functional features of different wireless mobile communication devices, wherein said front-end proxy module is operative for querying the knowledge database to determine functional features of wireless mobile communications devices;

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a device information module operative with the protocol engine module and front-end proxy module; ~~for determining functional features of a wireless mobile communications device~~ and

a configuration file database for storing configuration files used for configuring the front-end proxy module based on the determined functional features of the wireless mobile communications device, said configuration file database operatively connected to said device information module and allowing said device information module to query said configuration file database; and selecting a configuration file for configuring the front-end proxy module to interface with the wireless mobile communications device and enable communications of any desired alerts that are notifications indicative of an event.

12. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for determining functional features of the wireless mobile communications device by intermediate proxies and header information.

13. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for determining which functional features are enabled for different wireless mobile communications devices.

14. (CANCELLED)

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15. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for determining the brand of the wireless mobile communications device.

16. (CANCELLED)

17. (CURRENTLY AMENDED) A communications system according to ~~Claim 16~~ Claim 11, wherein said database includes data relating to the device type and brand of different wireless mobile communications devices.

18. (CURRENTLY AMENDED) A communications system according to ~~Claim 16~~ Claim 11, wherein said database includes data relating to unknown devices used for selecting a default configuration.

19. (ORIGINAL) A communications system according to Claim 11, wherein said device information module is operative for selecting a default configuration for unknown devices.

20. (ORIGINAL) A communications system according to Claim 11, wherein said data storage devices comprise servers that store email messages.

21. (CURRENTLY AMENDED) A method of communicating with a wireless mobile communications device comprising the steps of:

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receiving communications from a wireless mobile communications device within a front-end proxy module that can communicate using different operating protocols;

determining functional features of the wireless mobile communications device by querying a knowledge database operatively connected to the front-end proxy module, wherein the knowledge database stores data relating to functional features of different wireless communications devices;

selecting loading a configuration file to the front-end proxy module from a device information module operatively connected to the front-end proxy module by querying a configuration file database operatively connected to the device information module, wherein the configuration file database stores configuration files used for configuring the front-end proxy module based on functional features of the mobile wireless communications device; and

configuring a communications interface with the wireless mobile communications device based on the determined functional features to enable communications of any desired alerts that are notifications indicative of an event to the wireless mobile communications device.

22. (ORIGINAL) A method according to Claim 21, and further comprising the step of determining functional features of the wireless communications device by reviewing intermediate proxies and header information received from the wireless mobile communications device.

23. (CANCELLED)

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24. (ORIGINAL) A method according to Claim 21, and further comprising the step of configuring a WAP gateway through which alerts are sent to the wireless mobile communications device.

25. (ORIGINAL) A method according to Claim 21, wherein the step of determining functional features of the wireless mobile communications device comprises the step of identifying the brand of the wireless mobile communications device.

26. (ORIGINAL) A method according to Claim 25, and further comprising the step of matching a communications template with the brand of the wireless mobile communications device.

27. (CANCELLED)

28. (ORIGINAL) A method according to Claim 21, and further comprising the step of selecting a default configuration file when a wireless mobile communications device is unrecognized.

29. (ORIGINAL) A method according to Claim 21, and further comprising the step of storing information regarding the wireless mobile communications device for future processing when further features of a wireless mobile communications device are obtained.

30. (CANCELLED)

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31. (CANCELLED)

32. (CURRENTLY AMENDED) A method of communicating with a wireless mobile communications device comprising the steps of:

receiving communications from a wireless mobile communications device within a front-end proxy module that can communicate using different operating protocols;

determining the functional features of the wireless mobile communications device based on header information and intermediate proxies by querying a knowledge database operatively connected to the front-end proxy module, wherein the knowledge database stores data relating to functional features of different wireless communications devices;

loading a configuration file selected from to the front-end proxy module from a device information module that is operatively connected to a configuration database that is queried from the device information module to configure a communications interface through the front-end proxy module with the wireless mobile communications device based on the determined functional features to enable communications of any desired alerts that are notifications indicative of an event to the wireless mobile communications device; and

obtaining and storing new data regarding functional features of wireless mobile communications devices.

33. (ORIGINAL) A method according to Claim 32, and further comprising the step of determining functional features of a wireless mobile communications device by interpreting client, brand and gateways.

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34. (ORIGINAL) A method according to Claim 32, and further comprising the step of configuring a WAP gateway for sending alerts to the wireless mobile communications device.

35. (ORIGINAL) A method according to Claim 32, wherein the step of determining functional features of the wireless mobile communications device comprises the step of identifying the brand of the wireless mobile communications device.

36. (ORIGINAL) A method according to Claim 35, and further comprising the step of matching a communications template with the brand of the wireless mobile communications device.

37. (CANCELLED)

38. (ORIGINAL) A method according to Claim 32, and further comprising the step of selecting a default configuration file when a wireless mobile communications device is unrecognized.

39. (ORIGINAL) A method according to Claim 32, and further comprising the step of storing information regarding the wireless mobile communications device for future processing when further features of the wireless mobile communications device are obtained.

40. (CANCELLED)

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41. (CANCELLED)

42. (CURRENTLY AMENDED) A computer-readable medium for interfacing at least one wireless mobile communications device and a data storage device comprising:

a front-end proxy module operative as an agent for communicating with said plurality of mobile wireless communications devices using at least one different operating protocol; and

a knowledge database operatively connected to said front-end proxy module and storing data relating to functional features of different wireless mobile communication devices, wherein said front-end proxy module is operative for querying the knowledge database to determine functional features of wireless mobile communications devices;

a device information module operative with the front-end proxy module; ~~for determining functional features of a wireless mobile communications device and~~

a configuration file database for storing configuration files used for configuring the front-end proxy module based on functional features of the wireless mobile communications device, said configuration file database operatively connected to said device information module and allowing said device information module to query said configuration file database; and selecting a configuration file for configuring the front-end proxy module to interface with the wireless mobile communications device and enable communications of any desired alerts that are notifications indicative of an event.

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43. (ORIGINAL) A computer-readable medium according to Claim 42, and further comprising a protocol engine module for communicating with a plurality of data storage devices using respective operating protocols.

44. (CANCELLED)